



River Corridor Update

HAB River and Plateau Committee

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River Corridor Progress to Date

Moved spent nuclear fuel away from Columbia River

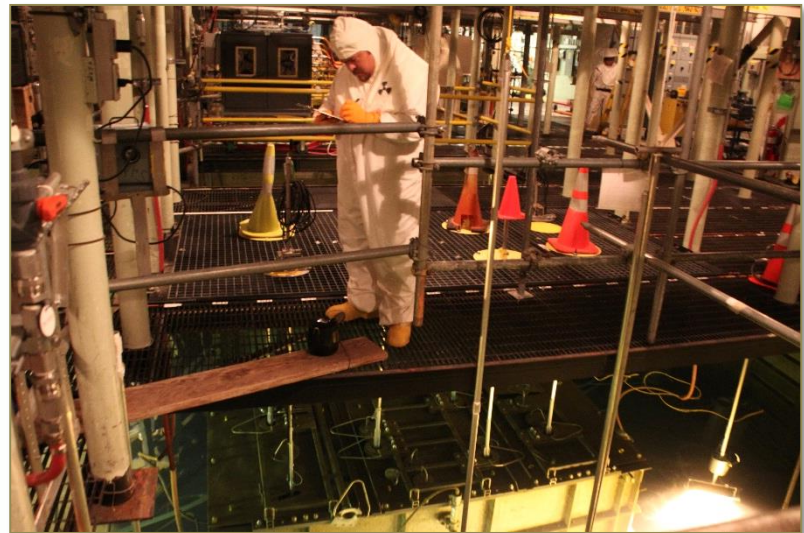
- ✓ 2,300 tons of spent fuel
- ✓ Moved to Central Plateau

Consolidated radioactive sludge

- ✓ 27 cubic meters (35 cubic yards) in engineered containers in K West Basin

Cleaned out and demolished facilities

- ✓ Facilities removed: 499 of 578



Spent fuel shipment to Central Plateau (top), K West Basin (bottom)

River Corridor Progress to Date (cont'd)

Remediated waste sites

- ✓ Waste Sites Remediated:
1,170 of 1,329

Waste removed from River Corridor

- ✓ More than 15 million tons disposed of in Central Plateau (Environmental Restoration Disposal Facility)

Treating groundwater to remove contaminants

- ✓ Treated 8 billion gallons, removing 3.5 tons to date



D Reactor Area

300 Area Progress

1999



300 Area Cleanup

- Located 1.5 miles north of City of Richland, close to the Columbia River
- Center of Hanford's radiological research and fuel fabrication during the Manhattan Project and Cold War
- 208 facilities demolished
- 304 waste sites remediated

2015



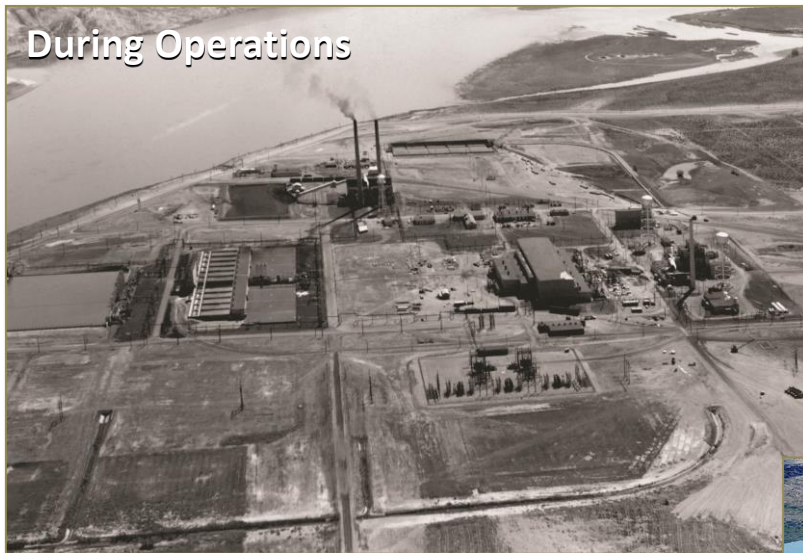
300 Area – Test Reactor Foundation



Site of the former Plutonium Recycle Test Reactor, the largest of six former test reactors in the 300 Area.

- The Plutonium Recycle Test Reactor was removed in 2014, and removal of remaining underground structures was completed in 2015.

F Reactor Area Progress



F Reactor Area Cleanup Highlights

- Reactor “cocooned” in 2003
- 103 waste sites cleaned up
- 646,000 tons of contaminated material removed away from river and disposed of at ERDF

100-F Reactor Area



H Reactor Area Progress

During Operations



H Reactor Area Cleanup Highlights

- Reactor cocooned in 2005
- 70 waste sites cleaned up
- 695,000 tons of contaminated material removed away from river and disposed of at ERDF

100-H Reactor Area

2015



D Reactor Area Progress

During Operations



D Reactor Area Cleanup Highlights

- DR Reactor cocooned in 2002, D Reactor in 2004
- 131 waste sites cleaned up, including 3 major sites with chromium deep in the soil
- 2.5 million tons of contaminated material removed away from river and disposed of at ERDF

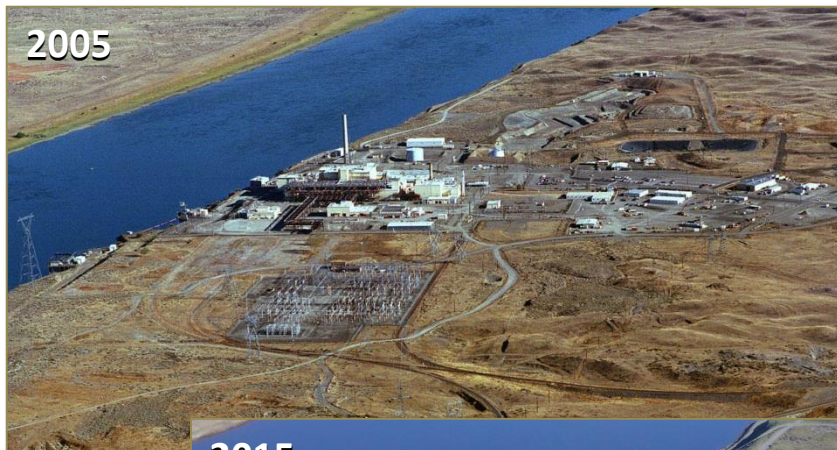
Waste Site Cleanup



2015



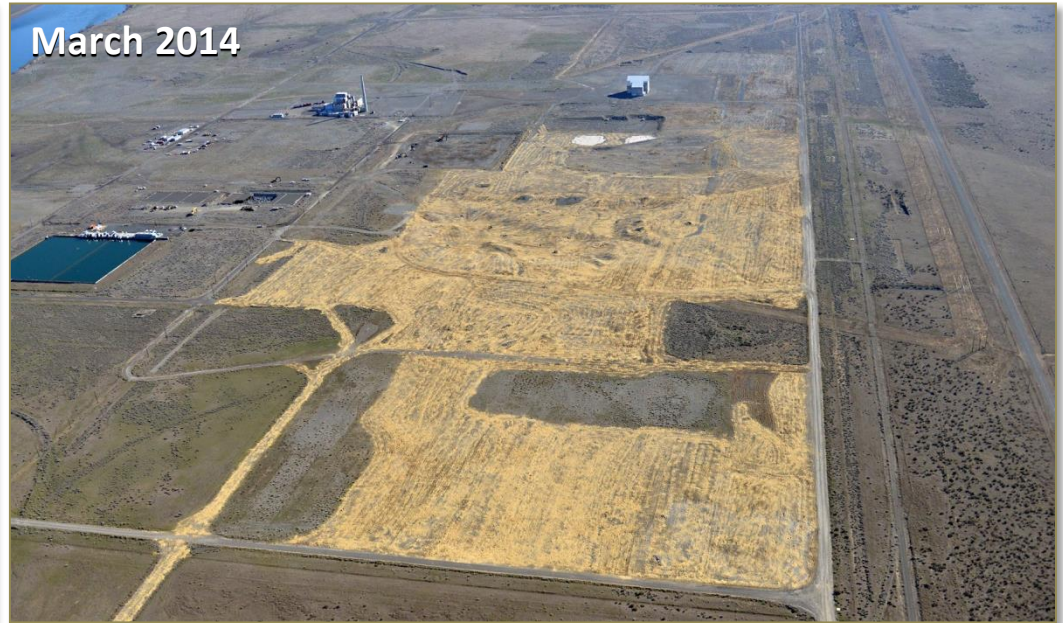
N Reactor Area Progress



100-N Cleanup Highlights

- Reactor cocooned in 2013
- 154 facilities demolished
- 153 waste sites cleaned up
- Backfill left the area with more natural appearance, using contouring and boulders

C-7 Waste Site Cleanup/Revegetation



100-C-7 Waste Site Cleanup

- More than 120 acres cleaned up; 2.5 million tons of waste material removed
- Revegetated with native bunchgrasses and roughly 52,000 tubelings of three different native plant species
- Using contouring and boulders, backfilling left the area with a more natural appearance

618-10 Burial Ground

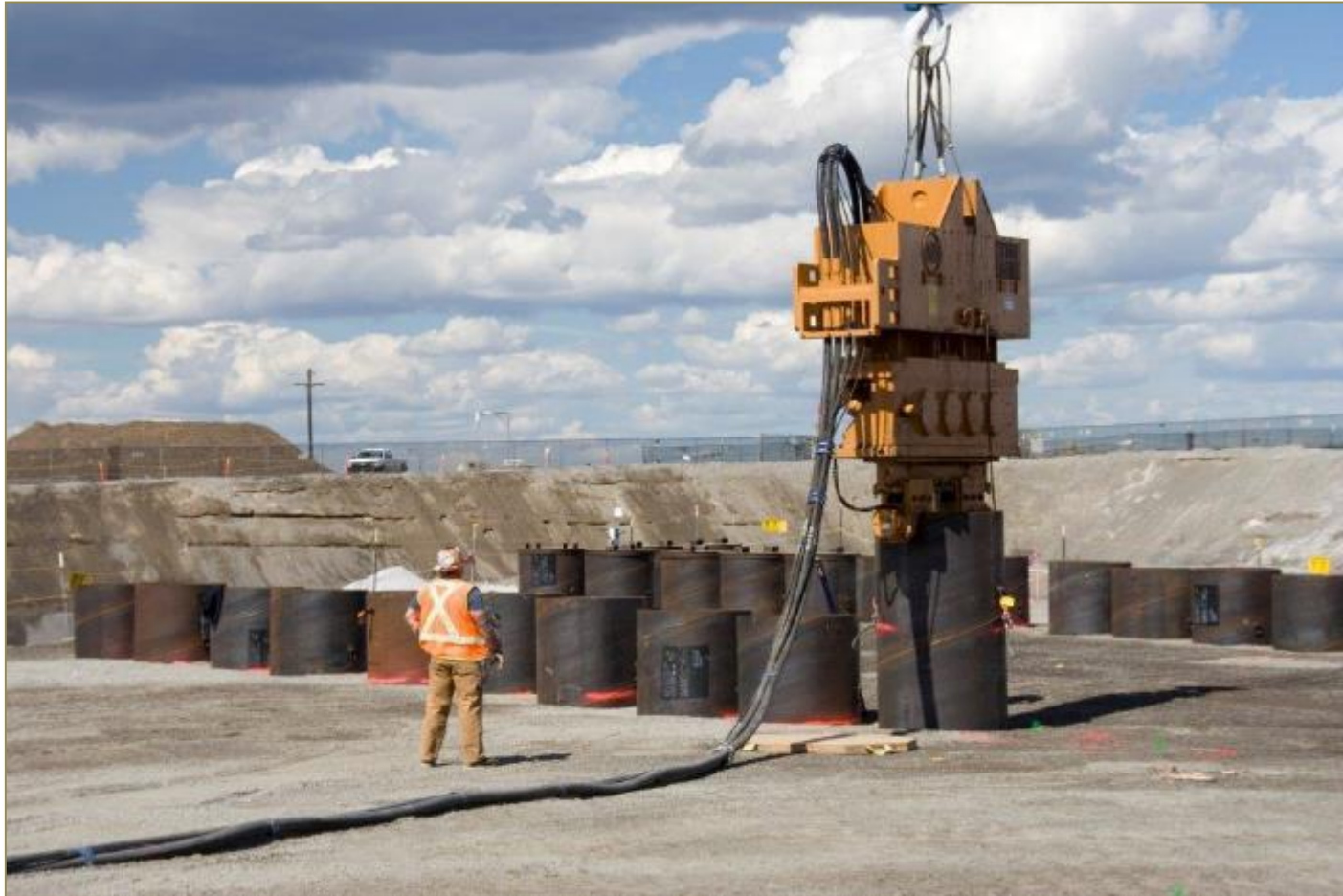
Progress in remediation of waste trenches

- 265,000 tons of soil loaded out to ERDF
- 900 drums retrieved



Workers have excavated down 35 feet in some areas to remove drums and contaminated soil. The burial ground is expected to contain about 1,550 drums.

618-10 Burial Ground



Over casings are being driven into the soil around vertical pipe units

Environmental Restoration Disposal Facility

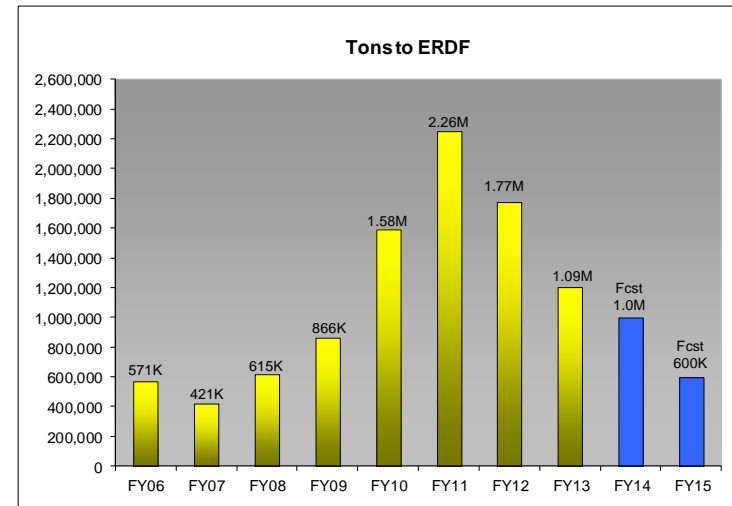
- Over 17 million tons disposed since 1996
- Over 16 million miles driven by Waste Operations drivers since 2005



Chrome waste from 100-D is disposed at ERDF.



ERDF's disposal cells cover an area equivalent to 52 football fields.



K East Reactor Area Soil Sampling



100-K Reactor Area



Borehole drilling near K East Reactor

Sludge Treatment Project

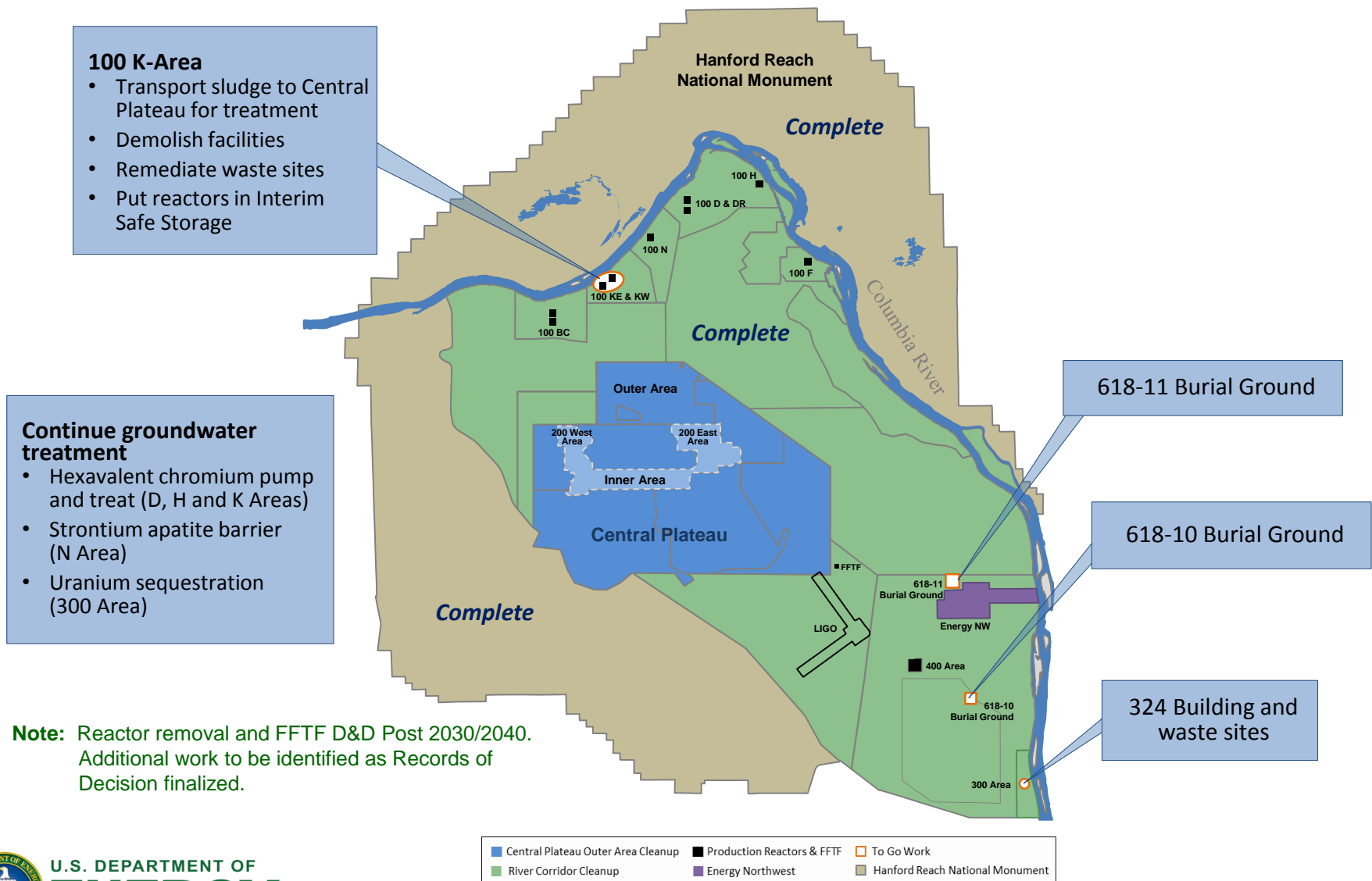


Exterior of annex that will house equipment for transferring sludge from engineered containers in the K West Basin into transport containers (for transport to T Plant).



Interior of the annex

River Corridor Projects To Go – Post 2015



Questions?

